



Evaluating Resource Management Strategies For the California Water Plan

*Update 2013
California Water Plan*



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California Water Plan

*State's Blueprint for
Integrated Water Management & Sustainability*





FLOODS



DECLINING ECOSYSTEMS

Managing an Uncertain Future

Risk, Uncertainty, and Sustainability



DROUGHT



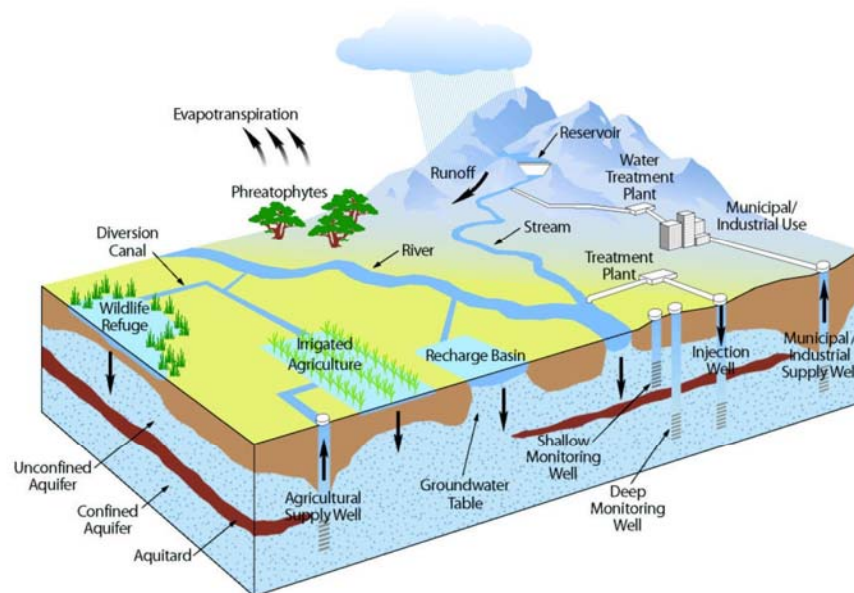
ENERGY
CRISIS

What We've Heard

- Evaluate how factors like climate, future dedication of water to the environment, land use decisions and population affect future water management
- Evaluate how resource management strategies perform under alternative plausible futures
 - Quantify costs, benefits, tradeoffs, and vulnerabilities



Improvements to analytical tools allow for more comprehensive evaluation



Improvements to analytical tools allow for more comprehensive evaluation

- ◆ Testing comprehensive analysis for three regions in Central Valley
 - Phased approach
- ◆ Will quantify a subset of strategies & strategy benefits
- ◆ Representation of regional groundwater and surface water systems
- ◆ Use monthly rainfall-runoff, water use, and water system operations data



Plan of Study Components



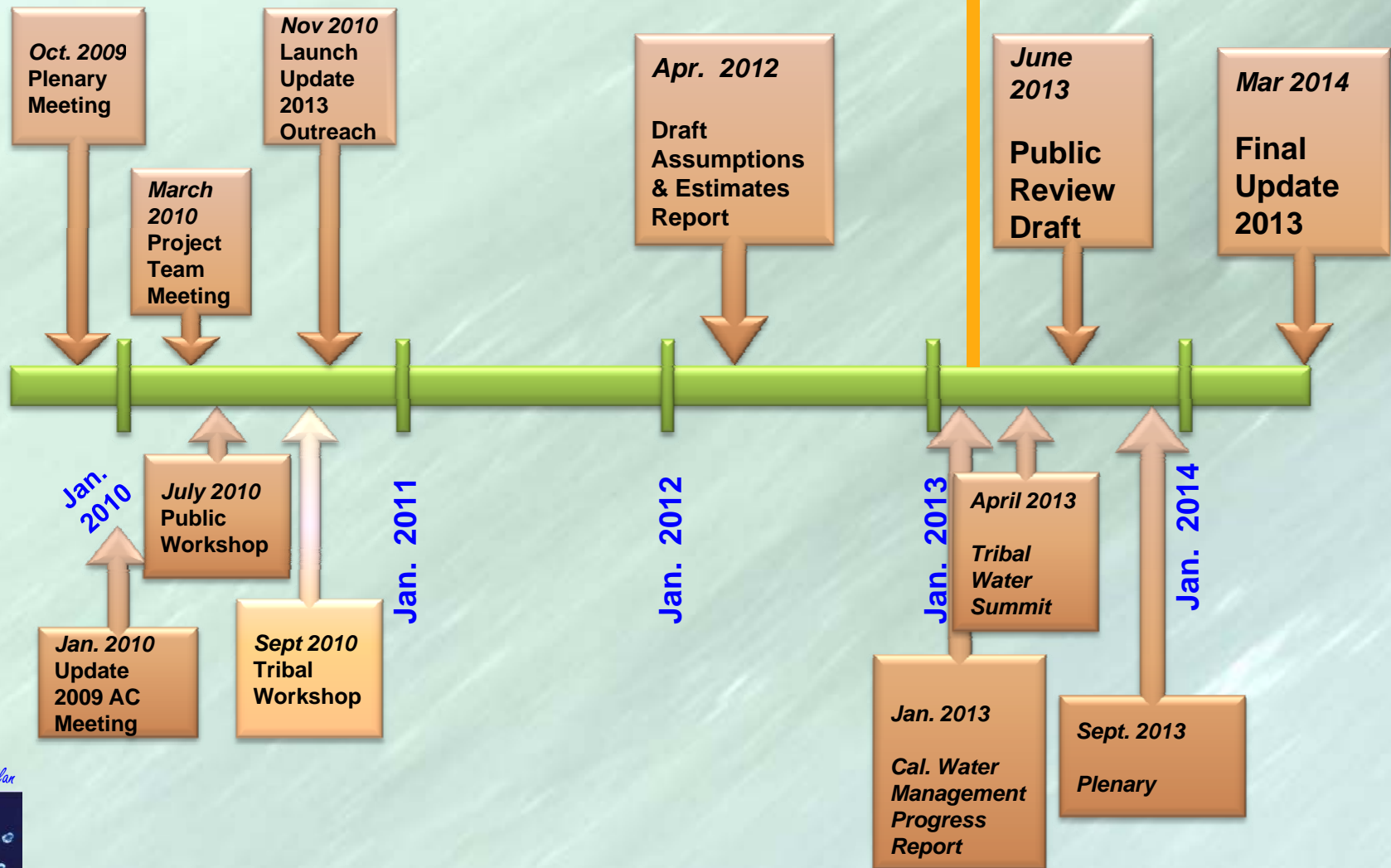
Areas Outside of Sacramento River, San Joaquin River and Tulare Lake Regions

- 💧 Apply simpler Hydrologic Region model developed for Update 2009
- 💧 Quantify regional water demand
 - 3-9 growth scenarios
 - 12-18 climate scenarios
- 💧 Ability to include some demand management strategies



Revised Update 2013 Scoping & Deliverables

We Are Here



Update 2013
California Water Plan



Goals for Today

- ◆ Describe data, analytical tools & methods used for California Water Plan Update 2013 to evaluate how water management is affected by factors like climate, land use decisions, and population growth out to the year 2050.
- ◆ Interactively review preliminary results from a water management vulnerability assessment conducted for the Sacramento River, San Joaquin River, and Tulare Lake Hydrologic Regions.
- ◆ Seek feedback on the technical approach and potential enhancements and seek guidance on including results within Update 2013.



Agenda for Today

- 💧 A Decision Framework for the CWP 2013 Update
 - David Groves, RAND Corporation
- 💧 Introduction to the WEAP Model
 - Andy Draper, MWH Americas
- 💧 Statewide Water Demands through 2050
 - Mohammad Rayej, DWR
- 💧 Initial results of the Vulnerability Analysis
 - David Groves, RAND Corporation

Discussion



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💧 SWAN

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